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LISTING OF CLAIMS:

On page 28, line 1, please delete the current heading "CLAIMS" and insert the following new heading:

--What is claimed is:--

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A process for producing a marking (45), for example digits, letters, surface patterns, surface images or decoration, on a substrate (43), preferably a film, in particular a transfer film,

wherein energy in the form of radiation, preferably laser radiation (30), is introduced from a controllable energy source into a replication surface of a replication apparatus (41) to produce at least one shaping region,

wherein the shaping region of the replication surface is shaped on to the substrate (43) by the replication apparatus (41) contacting the substrate (43) under pressure, wherein

~~characterised in that~~

the replication surface is subjected to a temperature control effect at least in a partial region using an additional controllable energy source,

an energy input by radiation from the radiation source and an energy input from the additional controllable energy source is introduced into the replication surface so that at least one portion of the replication surface is in the form of a heat combination region, and

the shaping region is shaped on the substrate, wherein the portion of the replication surface which is in the form of the heat combination region directly and/or indirectly forms the shaping region.

2. (Currently Amended) A process as set forth in claim 1, wherein ~~characterised in that~~, for the moment in time of the shaping operation, the temperature of the replication surface outside the heat combination region is set to a temperature or a temperature range in the plastic temperature range of the substrate and the temperature of the replication surface within the heat combination region is set to a temperature or a temperature range in the flow temperature range of the substrate.

3. (Currently Amended) A process as set forth in claim 1, wherein ~~characterised in that~~, for the moment in time of the shaping operation, the temperature of the replication surface outside the heat combination region is set to a temperature or a temperature range in the elastic temperature range of the substrate and the temperature of the replication surface within the heat combination region is set to a temperature or a temperature range in the plastic temperature range of the substrate.

4. (Currently Amended) A process as set forth in claim 1, wherein ~~one of the preceding claims characterised in that~~ the radiation introduced to produce the at least one shaping region is fed through the substrate (43), preferably outside the replication apparatus or through the replication apparatus.

5. (Currently Amended) A process as set forth in claim 1, wherein ~~one of the preceding claims characterised in that~~ a rotating replication roller (41) having the replication surface on its outside is used as the replication apparatus and the radiation is introduced into the replication surface of the replication roller before and/or while the heat combination region resulting therefrom comes into contact with the substrate (43) for the shaping operation.

6. (Currently Amended) A process as set forth in claim 5, wherein ~~characterised in that~~ a counterpressure apparatus co-operating with the replication roller (41), preferably a counterpressure roller (42), is used, and the radiation for producing the at least one shaping region is supplied through the counterpressure apparatus (4) or parts of the counterpressure apparatus (42) into the replication surface of the replication roller (41).

7. (Currently Amended) A process as set forth in claim 5, wherein ~~one of claims 5 and 6 characterised in that~~ introduction of the radiation into the replication surface of the replication roller (41) is effected at a first angular position of the replication roller (41) and the shaping operation by contact of the replication surface of the replication roller (41) with the substrate (43) is effected at a second angular position of the replication roller (41), wherein, in the direction of rotation of the replication roller (41), an intermediate angle of less than 30°, in particular less than 5°, is set between the first angular position and the second angular position.

8. (Currently Amended) A process as set forth in claim 1, wherein ~~one of the preceding claims characterised in that~~ the radiation acts over an area and/or in point form sequentially on the replication surface, for example on the replication surface of the replication roller (41).

9. (Currently Amended) A process as set forth in claim 1, wherein ~~one of the preceding claims characterised in that~~ the position of the impingement point of the radiation on the replication surface is controllable by a one-dimensional or multi-dimensional movement of the radiation and/or the power density in relation to surface area of the radiation at the impingement point of the radiation on the replication surface is controllable.

10. (Currently Amended) A process as set forth in claim 5, wherein ~~claims 5 through 9 characterised in that~~ a control sequence for actuation of the radiation-producing device extends over more than one revolution of the replication roller (41).

11. (Currently Amended) Apparatus, preferably for carrying out the process as set forth in claim 1, one of the preceding claims,

for producing a marking (45), for example digits, letters, surface patterns, surface images or decoration on a substrate (43), preferably a film, in particular a transfer film, comprising

a replication apparatus (41) which is in the form of a replication roller, wherein a replication surface is provided on an outside of the replication roller,

a device for producing a radiation (30), preferably a laser installation, wherein the radiation (30) for producing at least one shaping region is directed on to at least one portion (70a, b) of the replication surface, and

a counterpressure apparatus (42) which has a counterpressure surface, wherein the substrate (43) is arranged between the replication surface of the replication apparatus (41) and the counterpressure surface of the counterpressure apparatus (42) in order to shape the shaping region on to the substrate in a contact region (53) between the replication surface and the substrate (43),

wherein characterised in that

there is provided an additional heating apparatus for temperature control of the replication surface.

12. (Currently Amended) Apparatus as set forth in claim 11, wherein ~~characterised in that~~ the position in which the radiation acts on the portion of the replication surface during the

irradiation operation and the position of the contact region between the replication surface and the substrate (43) are arranged in overlapping relationship and/or in the direction of rotation of the replication roller (41) ~~are arranged~~ with a spacing angle of a magnitude of less than 30°.

13. (Currently Amended) Apparatus as set forth in claim 11, wherein one of claims 11 and 12 characterised in that the radiation (30) for producing the at least one shaping region is fed through the counterpressure apparatus (42) or parts of the counterpressure apparatus (42).

14. (Currently Amended) Apparatus as set forth in claim 11, wherein one of claims 11 through 13 characterised in that the counterpressure apparatus (42), preferably in the region of the counterpressure surface, is transparent for the radiation (30).

15. (Currently Amended) Apparatus as set forth in claim 11, wherein one of claims 11 through 14 characterised in that the counterpressure apparatus is in the form of a counterpressure roller (42).

16. (Currently Amended) Apparatus as set forth in claim 11, wherein one of claims 11 through 15 characterised in that the counterpressure apparatus (42) is completely or portion-wise in the form of a hollow body, preferably a hollow cylinder, in particular a glass hollow cylinder, preferably with an inside surface which is parallel to and/or concentric with the counterpressure surface and in particular with a cylinder wall (100) which is transparent for the radiation.

17. (Currently Amended) Apparatus as set forth in claim 11, wherein one of claims 11 through 16 characterised in that the device for producing the radiation (30) and/or a beam

deflection unit is arranged within the counterpressure apparatus (42) or within the replication roller (41).

18. (Currently Amended) Apparatus as set forth in claim 11, wherein one of claims 11 through 17 characterised in that the radiation (30) for producing the shaping regions is fed through the substrate (43).

19. (Currently Amended) Apparatus as set forth in claim 11, wherein one of claims 11 through 18 characterised in that there is provided an apparatus for temperature control of the replication surface, namely a cooling apparatus for cooling the replication surface, in particular partial regions of the replication surface, which is preferably in the form of a blower, gas flow cooling, or a cooling roller.

20. (Currently Amended) Apparatus as set forth in claim 11, wherein one of claims 11 through 19 characterised in that the heating apparatus is provided for heating the replication surface, in particular partial regions of the replication surface, and in particular is in the form of a blower, a heating laser device, an inductive heating device, resistance heating or a device for producing heat radiation.